

MILLER CONSTRUCTION, INC.

P.O. BOX 86 ASCUTNEY BLVD WINDSOR, VERMONT 05089-0086

TELEPHONE (802) 674-5525 / FAX (802) 674-5245

TRANSMITTAL

| | | |
|---|----------|-----------------------------|
| TO: Kristin M. Higgins, PE Project Manager Vermont Agency of Transportation | DATE | PROJECT NO. |
| | 4/7/2014 | Barnard ER BRF 0241 (39) |
| | | |

XX

WE ENCLOSE THE FOLLOWING:

UNDER SEPARATE COVER WE ARE SENDING THE FOLLOWING

| COPIES | NUMBER | DESCRIPTION | CODE |
|--------|--------|------------------------------------|------|
| 1 | | Schedule Narrative - Rev 3 - April | H |
| 1 | | Schedule Dated 04/07/14 | H |
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CODE:

A FOR INITIAL APPROVAL

B FOR FINAL APPROVAL

C APPROVED AS NOTED-RESUBMISSION REQUIRED

D APPROVED AS NOTED-RESUBMISSION NOT REQUIRED

E DISAPPROVED-RESUBMIT

F QUOTATION REQUESTED

G APPROVED

H FOR APPROVAL

I AS REQUESTED OR REQUIRED

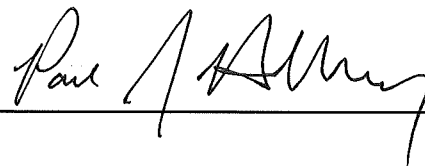
J FOR USE IN ERECTION

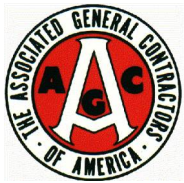
K LETTER FOLLOWS

L FOR FIELD CHECK

M FOR YOUR USE

BY:





MILLER CONSTRUCTION, INC.

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04/07/14

Barnard ER BRF 0241 (39) – Schedule Narrative – Revision 3

Project Overview:

The Barnard ER BRF 0241 (39) Project involves the replacement of Bridge 25 with related approach and channel work. The project location is in the Town of Barnard, VT on Vermont Route 12, beginning at Mile Post 7.0195 and ending at Mile Post 7.0535. The new structure will be approximately 88 feet in length with 97 feet of roadway work.

The intent of the Project is to have the bridge closure period (BCP) be as short a duration as possible. The allowable BCP is 28 consecutive calendar days. During the BCP, work will be allowed on the bridge 24 hours per day, 7 days per week, including holiday periods.

The Contract Completion Date is August 29, 2014. The BCP shall begin on or after June 20, 2014.

Monthly Updates:

Work performed during the previous Monthly Period is limited to Pre-Construction activities and is as follows:

- Approval of Site Specific TTC Plan – 3/10/14
- Approval of Pile Information – 3/10/14
- Approval of CPM Schedule Update: March – 3/12/14
- Approval of HPC Rapid Set Mix Design – 3/12/14
- Submission of CPM Schedule Update: April – 4/7/14

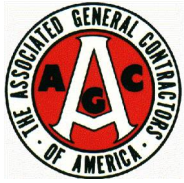
Schedule:

The Miller Construction, Inc. approach in preparing the Preliminary Project Baseline Schedule is to sequence activities as logically and efficiently as possible. All activities comprise of basic bridge building concepts with finish-start relationships.

Pre-Construction:

Pre-Construction activities include the submission and subsequent approval of all required submittals. There are (12) twelve required submittals for the project and status of each is as follows:

- CPM Schedule Software Request – Approved
- Bearing Device Assembly – Approved
- Rail Box Beam – Approved
- CPM Schedule – Approved
- Precast Structure Design – Approved
- EPSC Plan – Approved
- Reinforcing Steel – Approved
- Traffic Control Plan – Approved



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HPC Rapid Set Mix – Approved
Piling Information / WEAP – Approved
Lighting Plan – In Review
Precast Structure Erection Plan – Pending Submission

Pre-Construction activities also include the procurement of material. The status of material with significant lead time is as follows:

Bearing Device Assembly – Stockpiled at Miller Construction, Inc.
Piling – Rolled and Stockpiled at R.W. Conklin Steel
Bridge & Approach Rail – Ordered and will be stockpiled at F.R. Lafayette
Level II Reinforcing Steel – Stockpiled at Dimension Fabricators, Inc.
Precast Concrete – Stockpiled at J.P. Carrara & Sons, Inc.

A potential conflict that exists is the cost of stockpiling material. Due to the short duration of the project, material must be on hand well before the start of construction. Because stockpile payments are not allowed for items with Contract bid amount less than \$25,000, several items (Piling, Bearing Device Assembly, Reinforcing Steel, and certain Rail Items) must be paid for up front by Miller Construction Inc. with no payment for said items being received until the months of July and August. Additionally, no Raw Material Stockpile Payment or exception to the 75% Cap on Stockpiled Materials has been authorized for the project.

Pre-Construction activities also include the submission and subsequent approval of all proposed subcontracts. Currently, all anticipated subcontracts for the project have been submitted and approved.

Pre-Closure:

Pre-Closure activities include the Resident Engineer's trailer setup, building inspection of the property located at 8354 VT Rt. 107/12, detour signage installation, and equipment mobilization.

Resident Engineer's Trailer Setup:

An agreement has been made with a landowner to stage the Engineer's trailer on an adjacent property. Use of this site has been approved by VTrans Natural and Cultural Resources.

Building Inspection:

Continental Placer, Inc. will perform a building inspection of the property located at 8354 VT Rt. 12/107 prior to any construction activity.

Detour Signage Installation:

Detour signage shall be installed and covered during the first week in June. Covers shall remain in place until Route 12 is closed and the detour is opened.



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Equipment Mobilization:

Other projects and commitments have been scheduled so that maintenance and mobilization of equipment can occur during the second week in June.

One potential conflict that exists is that the Engineer's trailer location is within a special flood hazard area. The project is late in the season and it is expected that there is minimum potential for flooding in the area. Should this location be uninhabitable, an alternate area in either an adjacent structure or within the paved approach area shall be utilized.

Closure:

Closure activities include the removal of the existing temporary bridge and subsequent construction of the new structure. All work up to, and including the membrane, base course of pavement on the approaches, and line striping targets is required to open the bridge to two-way traffic.

One potential conflict that exists is the piling operation. It is assumed that piles can be driven unobstructed to the required minimum tolerance, depth, and resistance. Piling falls on the critical path, so any unforeseen issues and/or inefficiencies will be detrimental to schedule and to the project.

A second potential conflict that exists is weather. As with any project, it is possible to experience conditions to include, but not limited to, extreme heat, rain, flood, and wind. The contract states that that the BCP is absolutely fixed and will not be changed for any Act of God, omission, improper action, direction of the Engineer, or any other reason unless done so by the Secretary and only under extreme conditions as determined by the Secretary. Every effort shall be made to work though extreme conditions in a safe and productive manner.

Post-Closure:

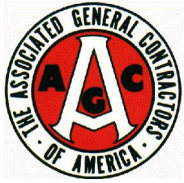
Post-Closure activities include the removal of the detour signage and traffic control devices, demobilization, and subsequent removal of the Engineer's Trailer.

All contract items may not be complete at the time of releasing traffic onto Route 12. Such remaining items include, but are not limited to, final pavement, line striping, and site reclamation. If required, such work shall be performed with full time, certified flaggers and the schedule adjusted accordingly.

Resources:

It is assumed that two crews will be working extended hours over a seven-day workweek during the BCP. At this time, no night work is anticipated, but it shall be implemented should it be deemed necessary.

Crew fatigue is a major concern for the project. Safety and productivity will need to be monitored on a continuous basis and crew adjustments made accordingly.



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Duration Justification:

Channel Excavation and Stone Fill activities exceed the 12 Hr. task limit during the BCP. None of these activities with the exception of work at Abutment 1 within the bridge limit fall on the Critical Path. All efforts shall be made to expedite the Stone Fill activity at Abutment 1.

Removing Rail & Deck and Hauling of the Temporary Bridge both exceed the 12 Hr. task limit during the BCP. The hauling operation is independent of all other activities after the removal of the Temporary Bridge but falls on the Critical Path because it takes resources away from the project. Should it negatively affect the schedule, bridge components shall be stored and then hauled after the BCP has ended.

Forming of the Backwalls exceeds the 12 Hr. task limit during the BCP. Formwork around the NEXT Beam stems account for the long duration. All efforts shall be made to prefabricate forms in order to expedite the activity.

Critical Path:

The Critical Path task bars are colored red, and Critical Path items highlighted yellow.

Milestone Dates are as follows:

10/11/13 Bid Date
11/06/13 Date of Contract
11/12/13 Notice to Proceed
02/19/14 Pre-Construction Meeting
06/20/14 Begin BCP
07/09/14 Superstructure Set
07/18/14 End BCP
08/28/14 Project Completion

BCP duration is 28 consecutive calendar days.

| ID | Task Mode | Task Name | Duration | Start | Finish | Predecessors | Resource Names | Oct 20, '13 | | | | | | | Nov 24, '13 | | Dec 29, '13 | | Feb 2, '14 | | Mar 9, '14 | | Apr 13, '14 | | | May 18, '14 | | Jun 22, '14 | | Jul 27, '14 | | Aug 31, '14 | | | | | | | | | |
|----|-----------|--|-------------|--------------|--------------|--------------|----------------|-------------|---|-------|--|---|--|---|-------------|---|-------------|---|------------|---|------------|---|-------------|---|--|-------------|--|-------------|--|-------------|--|-------------|--|---|--|---|--|---|--|---|--|
| 1 | ✓ 📅 | Bid Date | 0 days | Fri 10/11/13 | Fri 10/11/13 | | | W | T | 10/11 | | F | | S | | S | | M | | T | | W | | T | | F | | S | | S | | M | | T | | W | | T | | F | |
| 2 | ✓ 🔗 | Date of Contract | 0 days | Wed 11/6/13 | Wed 11/6/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | ✓ 🔗 | Notice to Proceed | 0 days | Tue 11/12/13 | Tue 11/12/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | ✓ 🔗 | CPM Schedule Software Request | 4 days | Tue 11/12/13 | Fri 11/15/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | ✓ 🔗 | Submit for Approval | 1 day | Tue 11/12/13 | Tue 11/12/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | ✓ 🔗 | Review Period | 3 days | Wed 11/13/13 | Fri 11/15/13 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | ✓ 🔗 | Return Approval | 1 day | Fri 11/15/13 | Fri 11/15/13 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | ✓ 🔗 | Bearing Device Assembly Shop Drawings | 2 days | Mon 12/2/13 | Tue 12/3/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | ✓ 🔗 | Submit for Approval | 1 day | Mon 12/2/13 | Mon 12/2/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | ✓ 🔗 | Review Period | 1 day | Tue 12/3/13 | Tue 12/3/13 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | ✓ 🔗 | Return Approval | 1 day | Tue 12/3/13 | Tue 12/3/13 | 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | ✓ 🔗 | Bridge and Approach Rail Shop Drawings | 45.15 days | Fri 12/6/13 | Thu 1/23/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | ✓ 🔗 | Submit for Approval | 1 day | Fri 12/6/13 | Fri 12/6/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | ✓ 🔗 | Review Period | 16.35 days | Fri 12/6/13 | Mon 12/23/13 | 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | ✓ 🔗 | Return Revise & Re-Submit | 1 day | Mon 12/23/13 | Mon 12/23/13 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | ✓ 🔗 | Submit Rev 1 for Approval | 10.45 days | Mon 12/23/13 | Thu 1/2/14 | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | ✓ 🔗 | Review Period | 18.35 days | Thu 1/2/14 | Tue 1/21/14 | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | ✓ 🔗 | Return Revise & Re-Submit | 1 day | Tue 1/21/14 | Tue 1/21/14 | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | ✓ 🔗 | Submit Rev 2 for Approval | 3 days | Tue 1/21/14 | Thu 1/23/14 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | ✓ 🔗 | Review Period | 1 day | Thu 1/23/14 | Thu 1/23/14 | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | ✓ 🔗 | Return Approval | 1 day | Thu 1/23/14 | Thu 1/23/14 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 70 | ✓ 🔗 | HPC Rapid Set Mix Design | 83.85 days | Thu 12/12/13 | Wed 3/12/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | ✓ 🔗 | Trial Batch / Testing | 83.85 days | Thu 12/12/13 | Wed 3/12/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 72 | ✓ 🔗 | Mix Design Approval | 1 day | Wed 3/12/14 | Wed 3/12/14 | 71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 🔗 | CPM Schedule Submittal | 194.05 days | Fri 12/20/13 | Fri 7/18/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | ✓ 🔗 | Submit for Approval | 1 day | Fri 12/20/13 | Fri 12/20/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | ✓ 🔗 | Review Period | 45.15 days | Fri 12/20/13 | Thu 2/6/14 | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | ✓ 🔗 | Return Revise & Re-Submit | 1 day | Thu 2/6/14 | Thu 2/6/14 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 27 | ✓ 🔗 | Submit Rev 1 for Approval | 1 day | Fri 2/7/14 | Fri 2/7/14 | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 28 | ✓ 🔗 | Review Period | 5 days | Mon 2/10/14 | Fri 2/14/14 | 27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 29 | ✓ 🔗 | Return Approval | 1 day | Fri 2/14/14 | Fri 2/14/14 | 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30 | ✓ 🔗 | Submit Rev 2 for Approval - March | 1 day | Fri 3/7/14 | Fri 3/7/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | ✓ 🔗 | Review Period | 4.45 days | Sat 3/8/14 | Wed 3/12/14 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 32 | ✓ 🔗 | Return Approval | 1 day | Wed 3/12/14 | Wed 3/12/14 | 31 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 33 | ✓ 🔗 | Submit Rev 3 for Approval - April | 1 day | Mon 4/7/14 | Mon 4/7/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 34 | 🔗 | Review Period | 10 days | Tue 4/8/14 | Fri 4/18/14 | 33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 🔗 | Return Approval | 0 days | Fri 4/18/14 | Fri 4/18/14 | 34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 | 🔗 | Submit Rev 4 for Approval - May | 1 day | Wed 5/7/14 | Wed 5/7/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 37 | 🔗 | Review Period | 10 days | Thu 5/8/14 | Mon 5/19/14 | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 🔗 | Return Approval | 0 days | Mon 5/19/14 | Mon 5/19/14 | 37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 39 | 🔗 | Submit Rev 5 for Approval - June | 1 day | Mon 6/9/14 | Mon 6/9/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 40 | 🔗 | Review Period | 10 days | Tue 6/10/14 | Fri 6/20/14 | 39 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 41 | 🔗 | Return Approval | 0 days | Fri 6/20/14 | Fri 6/20/14 | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 42 | 🔗 | Submit Rev 6 for Approval - July | 1 day | Mon 7/7/14 | Mon 7/7/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 43 | 🔗 | Review Period | 10 days | Tue 7/8/14 | Fri 7/18/14 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 44 | 🔗 | Return Approval | 0 days | Fri 7/18/14 | Fri 7/18/14 | 43 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 45 | ✓ 🔗 | Precast Detail and Design Submittal | 46.15 days | Fri 12/20/13 | Fri 2/7/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 46 | ✓ 🔗 | Submit for Approval | 1 day | Fri 12/20/13 | Fri 12/20/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ID | Task Mode | Task Name | Duration | Start | Finish | Predecessors | Resource Names | Oct 20, '13 | | | | | | | Nov 24, '13 | | Dec 29, '13 | | Feb 2, '14 | | Mar 9, '14 | | Apr 13, '14 | | May 18, '14 | | Jun 22, '14 | | Jul 27, '14 | | Aug 31, '14 | |
|-----|-----------|--|------------|--------------|--------------|-----------------|----------------|-------------|---|---|---|---|---|---|-------------|---|-------------|---|------------|---|------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------|---|
| 56 | ✓ 📅 | Reinforcing Steel Submittal | 35.25 days | Tue 12/31/13 | Thu 2/6/14 | | | W | T | O | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F | S | S | M | T | W | T | F |
| 57 | ✓ 🔗 | Submit for Approval | 1 day | Tue 12/31/13 | Tue 12/31/13 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 | ✓ 📅 | Review Period | 20.35 days | Tue 12/31/13 | Tue 1/21/14 | 57 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 59 | ✓ 📅 | Return Revise & Re-Submit | 1 day | Tue 1/21/14 | Tue 1/21/14 | 58 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60 | ✓ 📅 | Submit Rev 1 for Approval | 10.35 days | Tue 1/21/14 | Fri 1/31/14 | 59 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 61 | ✓ 🔗 | Review Period | 6.45 days | Fri 1/31/14 | Thu 2/6/14 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 62 | ✓ 🔗 | Return Approval | 1 day | Thu 2/6/14 | Thu 2/6/14 | 61 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63 | ✓ 📅 | Traffic Control Submittal | 35.7 days | Fri 1/31/14 | Mon 3/10/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 64 | ✓ 🔗 | Submit for Approval | 1 day | Fri 1/31/14 | Fri 1/31/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | ✓ 🔗 | Review Period | 13.9 days | Fri 1/31/14 | Fri 2/14/14 | 64 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | ✓ 🔗 | Return Revise & Re-Submit | 1 day | Fri 2/14/14 | Fri 2/14/14 | 65 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | ✓ 🔗 | Submit Rev 1 for Approval | 1 day | Tue 2/25/14 | Tue 2/25/14 | 66 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 | ✓ 📅 | Review Period | 11.9 days | Wed 2/26/14 | Mon 3/10/14 | 67 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | ✓ 📅 | Return Approval | 1 day | Mon 3/10/14 | Mon 3/10/14 | 68 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | ✓ 🔗 | Pre-Construction Meeting | 1 day | Wed 2/19/14 | Wed 2/19/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 73 | ✓ 📅 | Piling Information Submittal | 13.9 days | Mon 2/24/14 | Mon 3/10/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74 | ✓ 🔗 | Submit for Approval | 1 day | Mon 2/24/14 | Mon 2/24/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 75 | ✓ 📅 | Review Period | 12.9 days | Tue 2/25/14 | Mon 3/10/14 | 74 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 76 | ✓ 📅 | Return Approval | 1 day | Mon 3/10/14 | Mon 3/10/14 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77 | ✓ 📅 | Lighting Plan Submittal | 41 days | Thu 3/6/14 | Sat 4/19/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 78 | ✓ 🔗 | Submit for Approval | 1 day | Thu 3/6/14 | Thu 3/6/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 79 | ✓ 📅 | Review Period | 40 days | Fri 3/7/14 | Sat 4/19/14 | 78 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | ✓ 📅 | Return Approval | 0 days | Sat 4/19/14 | Sat 4/19/14 | 79 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 81 | ✓ 📅 | Precast Erection Plan Submittal | 22 days | Wed 4/16/14 | Fri 5/9/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 82 | ✓ 🔗 | Submit for Approval | 1 day | Wed 4/16/14 | Wed 4/16/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 83 | ✓ 📅 | Review Period | 21 days | Thu 4/17/14 | Fri 5/9/14 | 82 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 84 | ✓ 📅 | Return Approval | 0 days | Fri 5/9/14 | Fri 5/9/14 | 83 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 158 | ✓ 📅 | Field Office, Engineers | 81.9 days | Mon 6/2/14 | Fri 8/29/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 159 | ✓ 📅 | Set up Engineer's Trailer | 1 day | Mon 6/2/14 | Mon 6/2/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 160 | ✓ 📅 | Breakdown and Removal of Engineer's Trailer | 21 days | Wed 8/6/14 | Fri 8/29/14 | 164 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 161 | ✓ 📅 | Mobilization | 10.45 days | Mon 6/2/14 | Thu 6/12/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 162 | ✓ 📅 | Building Inspection - 8354 VT Rte. 107/12 | 1 day | Mon 6/2/14 | Mon 6/2/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 163 | ✓ 📅 | Mobilize Equipment and Job Trailer | 3 days | Tue 6/10/14 | Thu 6/12/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 167 | ✓ 📅 | 4 Inch Yellow Line - Detour | 4 hrs | Mon 6/2/14 | Mon 6/2/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 196 | ✓ 📅 | Traffic Control, All-Inclusive | 43.9 days | Mon 6/2/14 | Sat 7/19/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 197 | ✓ 📅 | Set up Detour Signage | 4 days | Mon 6/2/14 | Thu 6/5/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 199 | ✓ 📅 | Close VT12/Open Detour | 1 hr | Fri 6/20/14 | Fri 6/20/14 | 197,159,163,167 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 198 | ✓ 📅 | Bridge Closed | 0 days | Fri 6/20/14 | Fri 6/20/14 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | ✓ 📅 | Open VT12/Close Detour | 1 hr | Fri 7/18/14 | Fri 7/18/14 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | ✓ 📅 | Bridge Open | 0 days | Fri 7/18/14 | Fri 7/18/14 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 202 | ✓ 📅 | Remove Detour Signage | 1 day | Fri 7/18/14 | Sat 7/19/14 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | ✓ 📅 | Clearing and Grubbing, Including Individual Trees and Stumps | 8 hrs | Fri 6/20/14 | Fri 6/20/14 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 169 | ✓ 📅 | EPSC Plan | 15 hrs | Fri 6/20/14 | Sat 6/21/14 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 191 | ✓ 📅 | Removal of Temporary Bridge and Approaches | 5.5 days | Fri 6/20/14 | Thu 6/26/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 192 | ✓ 📅 | Remove Rail & Deck | 20 hrs | Fri 6/20/14 | Sun 6/22/14 | 199 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 193 | ✓ 📅 | Delaunch Temp. Bridge | 10 hrs | Sun 6/22/14 | Mon 6/23/14 | 192 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 194 | ✓ 📅 | Dismantle Temp. Bridge | 10 hrs | Mon 6/23/14 | Tue 6/24/14 | 193 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 195 | ✓ 📅 | Haul Temp. Bridge | 15 hrs | Tue 6/24/14 | Thu 6/26/14 | 194 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 123 | ✓ 📅 | Partial Removal of Structure | 3.5 days | Mon 6/23/14 | Fri 6/27/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 124 | ✓ 📅 | Demo Existing Abutment 2 | 10 hrs | Mon 6/23/14 | Tue 6/24/14 | 193 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | ✓ 📅 | Haul Existing Abutment 2 Rubble | 10 hrs | Tue 6/24/14 | Wed 6/25/14 | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 126 | ✓ 📅 | Demo Existing Abutment 1 | 5 hrs | Thu 6/26/14 | Thu 6/26/14 | 195 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Project: Barnard ER BRF 0241 (39)
Date: Mon 4/7/14

Task Split

Milestone

Summary

Project Summary

External Tasks

External Milestone

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

Deadline

Critical

Critical Split

Progress

Page 2

| ID | Task Mode | Task Name | Duration | Start | Finish | Predecessors | Resource Names | W | T | Oct 20, '13 | F | S | Nov 24, '13 | S | M | Dec 29, '13 | T | W | T | Feb 2, '14 | F | S | Mar 9, '14 | S | M | Apr 13, '14 | T | W | T | May 18, '14 | F | S | Jun 22, '14 | S | M | Jul 27, '14 | T | W | T | Aug 31, '14 | F | | | | | |
|-----|-----------|--|----------|-------------|-------------|--------------|----------------|---|---|-------------|---|---|-------------|---|---|-------------|---|---|---|------------|---|---|------------|---|---|-------------|---|---|---|-------------|---|---|-------------|---|---|-------------|---|---|---|-------------|---|--|--|--|--|--|
| 127 | | Haul Existing Abutment 1 Rubble | 5 hrs | Thu 6/26/14 | Fri 6/27/14 | 126 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 88 | | Unclassified Channel Excavation | 10 days | Tue 6/24/14 | Sat 7/5/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 89 | | Abutment 2 within Bridge Limits | 25 hrs | Tue 6/24/14 | Fri 6/27/14 | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | | Abutment 1 within Bridge Limits | 25 hrs | Fri 6/27/14 | Mon 6/30/14 | 127 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 91 | | Abutment 2 Outside Bridge Limits | 25 hrs | Mon 6/30/14 | Wed 7/2/14 | 181,150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 92 | | Abutment 1 Outside Bridge Limits | 25 hrs | Wed 7/2/14 | Sat 7/5/14 | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 93 | | Trench Excavation of Earth | 2 hrs | Tue 6/24/14 | Tue 6/24/14 | 95SS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | | Structure Excavation | 2.8 days | Tue 6/24/14 | Fri 6/27/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 95 | | Abutment 2 | 8 hrs | Tue 6/24/14 | Wed 6/25/14 | 124 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 96 | | Abutment 1 | 8 hrs | Thu 6/26/14 | Fri 6/27/14 | 126 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 149 | | Stone Fill, Type IV | 10 days | Fri 6/27/14 | Tue 7/8/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | | Abutment 2 to Elev. 870.00 within Bridge Limits | 25 hrs | Fri 6/27/14 | Mon 6/30/14 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 151 | | Abutment 1 to Elev. 875.00 within Bridge Limits | 25 hrs | Mon 6/30/14 | Wed 7/2/14 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 152 | | Abutment 2 Outside Bridge Limits | 25 hrs | Wed 7/2/14 | Sat 7/5/14 | 91 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 153 | | Abutment 1 Outside Bridge Limits | 25 hrs | Sat 7/5/14 | Tue 7/8/14 | 92 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 181 | | Pre-Excavation of Integral Abutment Piles, Earth | 10 hrs | Fri 6/27/14 | Sat 6/28/14 | 89 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 87 | | Solid Rock Excavation | 3 hrs | Fri 6/27/14 | Fri 6/27/14 | 95,96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 182 | | Pre-Excavation of Integral Abutment Piles, Rock | 10 hrs | Mon 6/30/14 | Tue 7/1/14 | 181,150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 104 | | Steel Piling, HP 10 X 57 | 1 day | Tue 7/1/14 | Wed 7/2/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 105 | | Set Pile P1 | 2.5 hrs | Tue 7/1/14 | Tue 7/1/14 | 182 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 106 | | Set Pile P2 | 2.5 hrs | Tue 7/1/14 | Tue 7/1/14 | 105 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 107 | | Set Pile P3 | 2.5 hrs | Tue 7/1/14 | Tue 7/1/14 | 106 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 108 | | Set Pile P4 | 2.5 hrs | Tue 7/1/14 | Wed 7/2/14 | 107 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 133 | | Precast Concrete Structure (Abutment 2) | 2 days | Wed 7/2/14 | Fri 7/4/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 134 | | Prep for Abutment 2 | 8 hrs | Wed 7/2/14 | Wed 7/2/14 | 108 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 135 | | Set Abutment 2-1 | 6 hrs | Thu 7/3/14 | Thu 7/3/14 | 134 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 136 | | Set Abutment 2-2 | 6 hrs | Thu 7/3/14 | Fri 7/4/14 | 135 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 109 | | Steel Piling, HP 12 X 74 | 1.2 days | Wed 7/2/14 | Thu 7/3/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | | Drive Pile P1 | 3 hrs | Wed 7/2/14 | Wed 7/2/14 | 151 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 111 | | Drive Pile P2 | 3 hrs | Thu 7/3/14 | Thu 7/3/14 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112 | | Drive Pile P3 | 3 hrs | Thu 7/3/14 | Thu 7/3/14 | 111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 113 | | Drive Pile P4 | 3 hrs | Thu 7/3/14 | Thu 7/3/14 | 112 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 114 | | Dynamic Pile Loading Test | 10 hrs | Wed 7/2/14 | Thu 7/3/14 | 110SS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 129 | | Precast Concrete Structure (Abutment 1) | 2 days | Thu 7/3/14 | Sat 7/5/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 130 | | Prep for Abutment 1 | 8 hrs | Thu 7/3/14 | Fri 7/4/14 | 113 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 131 | | Set Abutment 1-1 | 6 hrs | Fri 7/4/14 | Sat 7/5/14 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 132 | | Set Abutment 1-2 | 6 hrs | Sat 7/5/14 | Sat 7/5/14 | 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 171 | | High Performance Concrete, Rapid Set | 10 days | Fri 7/4/14 | Tue 7/15/14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 172 | | Place Pile Cavities - Abutment 2 | 2 hrs | Fri 7/4/14 | Fri 7/4/14 | 136 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 173 | | Place Pile Cavities - Abutment 1 | 2 hrs | Sat 7/5/14 | Sun 7/6/14 | 132 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 174 | | Form Backwalls | 15 hrs | Wed 7/9/14 | Fri 7/11/14 | 189 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

